



#2

OIPE

RAW SEQUENCE LISTING DATE: 02/10/2002
 PATENT APPLICATION: US/10/058,292 TIME: 15:12:29

Input Set : N:\Crf3\RULE60\10058292.txt
 Output Set: N:\CRF3\02102002\J058292.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Hartley, James L.
 7 Brasch, Michael A.
 9 (ii) TITLE OF INVENTION: Recombinational Cloning Using Engineered
 10 Recombination Sites

12 (iii) NUMBER OF SEQUENCES: 35

14 (iv) CORRESPONDENCE ADDRESS:

15 (A) ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C
 16 (B) STREET: 1100 New York Ave., N. W. Suite 600
 17 (C) CITY: Washington
 18 (D) STATE: DC
 19 (E) COUNTRY: USA
 20 (F) ZIP: 20005-3934

22 (v) COMPUTER READABLE FORM:

23 (A) MEDIUM TYPE: Floppy disk
 24 (B) COMPUTER: IBM PC compatible
 25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

28 (vi) CURRENT APPLICATION DATA:

C--> 29 (A) APPLICATION NUMBER: US/10/058,292
 C--> 30 (B) FILING DATE: 30-Jan-2002
 56 (C) CLASSIFICATION:

C--> 53 (vii) PRIOR APPLICATION DATA:

34 (A) APPLICATION NUMBER: 09/432,085
 35 (B) FILING DATE: 1999-11-02
 39 (A) APPLICATION NUMBER: 09/233,493
 40 (B) FILING DATE: 20-JAN-1999
 44 (A) APPLICATION NUMBER: 09/005,476
 45 (B) FILING DATE: 12-JAN-1998
 49 (A) APPLICATION NUMBER: 08/663,002
 50 (B) FILING DATE: 07-JUN-1996
 54 (A) APPLICATION NUMBER: 08/486,139
 55 (B) FILING DATE: 07-JUN-1995

58 (ix) TELECOMMUNICATION INFORMATION:

59 (A) TELEPHONE: 202-371-2600
 60 (B) TELEFAX: 202-371-2540

63 (2) INFORMATION FOR SEQ ID NO: 1:

65 (i) SEQUENCE CHARACTERISTICS:

66 (A) LENGTH: 25 base pairs
 67 (B) TYPE: nucleic acid
 68 (C) STRANDEDNESS: both
 69 (D) TOPOLOGY: both

ENTERED

RAW SEQUENCE LISTING DATE: 02/10/2002
 PATENT APPLICATION: US/10/058,292 TIME: 15:12:29

Input Set : N:\Crf3\RULE60\10058292.txt
 Output Set: N:\CRF3\02102002\J058292.raw

```

71      (ii) MOLECULE TYPE: cDNA
76      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
78 RKYCWGCTTT YKTRTACNAA STSGB                               25
80 (2) INFORMATION FOR SEQ ID NO: 2:
82      (i) SEQUENCE CHARACTERISTICS:
83          (A) LENGTH: 25 base pairs
84          (B) TYPE: nucleic acid
85          (C) STRANDEDNESS: both
86          (D) TOPOLOGY: both
88      (ii) MOLECULE TYPE: cDNA
93      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
95 AGCCWGCTTT YKTRTACNAA CTSGB                               25
97 (2) INFORMATION FOR SEQ ID NO: 3:
99      (i) SEQUENCE CHARACTERISTICS:
100         (A) LENGTH: 25 base pairs
101         (B) TYPE: nucleic acid
102         (C) STRANDEDNESS: both
103         (D) TOPOLOGY: both
105      (ii) MOLECULE TYPE: cDNA
110      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
112 GTTCAGCTTT CKTRTACNAA CTSGB                               25
114 (2) INFORMATION FOR SEQ ID NO: 4:
116      (i) SEQUENCE CHARACTERISTICS:
117         (A) LENGTH: 25 base pairs
118         (B) TYPE: nucleic acid
119         (C) STRANDEDNESS: both
120         (D) TOPOLOGY: both
122      (ii) MOLECULE TYPE: cDNA
127      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
129 AGCCWGCTTT CKTRTACNAA GTSGB                               25
131 (2) INFORMATION FOR SEQ ID NO: 5:
133      (i) SEQUENCE CHARACTERISTICS:
134         (A) LENGTH: 25 base pairs
135         (B) TYPE: nucleic acid
136         (C) STRANDEDNESS: both
137         (D) TOPOLOGY: both
139      (ii) MOLECULE TYPE: cDNA
144      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
146 GTTCAGCTTT YKTRTACNAA GTSGB                               25
148 (2) INFORMATION FOR SEQ ID NO: 6:
150      (i) SEQUENCE CHARACTERISTICS:
151         (A) LENGTH: 25 base pairs
152         (B) TYPE: nucleic acid
153         (C) STRANDEDNESS: both
154         (D) TOPOLOGY: both
156      (ii) MOLECULE TYPE: cDNA
161      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
163 AGCCTGCTTT TTTGTACAAA CTTGT                               25
165 (2) INFORMATION FOR SEQ ID NO: 7:

```

RAW SEQUENCE LISTING

DATE: 02/10/2002

PATENT APPLICATION: US/10/058,292

TIME: 15:12:29

Input Set : N:\Crf3\RULE60\10058292.txt

Output Set: N:\CRF3\02102002\J058292.raw

```

167      (i) SEQUENCE CHARACTERISTICS:
168          (A) LENGTH: 25 base pairs
169          (B) TYPE: nucleic acid
170          (C) STRANDEDNESS: both
171          (D) TOPOLOGY: both
173      (ii) MOLECULE TYPE: cDNA
178      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
180 AGCCTGCTTT CTTGTACAAA CTTGT
182 (2) INFORMATION FOR SEQ ID NO: 8:
184      (i) SEQUENCE CHARACTERISTICS:
185          (A) LENGTH: 25 base pairs
186          (B) TYPE: nucleic acid
187          (C) STRANDEDNESS: both
188          (D) TOPOLOGY: both
190      (ii) MOLECULE TYPE: cDNA
195      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
197 ACCCAGCTTT CTTGTACAAA CTTGT
199 (2) INFORMATION FOR SEQ ID NO: 9:
201      (i) SEQUENCE CHARACTERISTICS:
202          (A) LENGTH: 25 base pairs
203          (B) TYPE: nucleic acid
204          (C) STRANDEDNESS: both
205          (D) TOPOLOGY: both
207      (ii) MOLECULE TYPE: cDNA
212      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
214 GTTCAGCTTT TTTGTACAAA CTTGT
216 (2) INFORMATION FOR SEQ ID NO: 10:
218      (i) SEQUENCE CHARACTERISTICS:
219          (A) LENGTH: 25 base pairs
220          (B) TYPE: nucleic acid
221          (C) STRANDEDNESS: both
222          (D) TOPOLOGY: both
224      (ii) MOLECULE TYPE: cDNA
229      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
231 GTTCAGCTTT CTTGTACAAA CTTGT
233 (2) INFORMATION FOR SEQ ID NO: 11:
235      (i) SEQUENCE CHARACTERISTICS:
236          (A) LENGTH: 25 base pairs
237          (B) TYPE: nucleic acid
238          (C) STRANDEDNESS: both
239          (D) TOPOLOGY: both
241      (ii) MOLECULE TYPE: cDNA
246      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
248 GTTCAGCTTT CTTGTACAAA GTTGG
250 (2) INFORMATION FOR SEQ ID NO: 12:
252      (i) SEQUENCE CHARACTERISTICS:
253          (A) LENGTH: 25 base pairs
254          (B) TYPE: nucleic acid
255          (C) STRANDEDNESS: both

```

RAW SEQUENCE LISTING

DATE: 02/10/2002

PATENT APPLICATION: US/10/058,292

TIME: 15:12:29

Input Set : N:\Crf3\RULE60\10058292.txt

Output Set: N:\CRF3\02102002\J058292.raw

```

256         (D) TOPOLOGY: both
258     (ii) MOLECULE TYPE: cDNA
263     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
265 AGCCTGCTTT TTTGTACAAA GTTGG
267 (2) INFORMATION FOR SEQ ID NO: 13:
269     (i) SEQUENCE CHARACTERISTICS:
270         (A) LENGTH: 25 base pairs
271         (B) TYPE: nucleic acid
272         (C) STRANDEDNESS: both
273         (D) TOPOLOGY: both
275     (ii) MOLECULE TYPE: cDNA
280     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
282 AGCCTGCTTT CTTGTACAAA GTTGG
284 (2) INFORMATION FOR SEQ ID NO: 14:
286     (i) SEQUENCE CHARACTERISTICS:
287         (A) LENGTH: 25 base pairs
288         (B) TYPE: nucleic acid
289         (C) STRANDEDNESS: both
290         (D) TOPOLOGY: both
292     (ii) MOLECULE TYPE: cDNA
297     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
299 ACCCAGCTTT CTTGTACAAA GTTGG
301 (2) INFORMATION FOR SEQ ID NO: 15:
303     (i) SEQUENCE CHARACTERISTICS:
304         (A) LENGTH: 25 base pairs
305         (B) TYPE: nucleic acid
306         (C) STRANDEDNESS: both
307         (D) TOPOLOGY: both
309     (ii) MOLECULE TYPE: cDNA
314     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
316 GTTCAGCTTT TTTGTACAAA GTTGG
318 (2) INFORMATION FOR SEQ ID NO: 16:
320     (i) SEQUENCE CHARACTERISTICS:
321         (A) LENGTH: 25 base pairs
322         (B) TYPE: nucleic acid
323         (C) STRANDEDNESS: both
324         (D) TOPOLOGY: both
326     (ii) MOLECULE TYPE: cDNA
331     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
333 GTTCAGCTTT CTTGTACAAA GTTGG
335 (2) INFORMATION FOR SEQ ID NO: 17:
337     (i) SEQUENCE CHARACTERISTICS:
338         (A) LENGTH: 39 base pairs
339         (B) TYPE: nucleic acid
340         (C) STRANDEDNESS: both
341         (D) TOPOLOGY: both
343     (ii) MOLECULE TYPE: cDNA
348     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
350 CCACCACAAA CGCGTCCATG GAATTACACT TTAATTTAG

```

RAW SEQUENCE LISTING DATE: 02/10/2002
 PATENT APPLICATION: US/10/058,292 TIME: 15:12:29

Input Set : N:\Crf3\RULE60\10058292.txt
 Output Set: N:\CRF3\02102002\J058292.raw

```

352 (2) INFORMATION FOR SEQ ID NO: 18:
354     (i) SEQUENCE CHARACTERISTICS:
355         (A) LENGTH: 39 base pairs
356         (B) TYPE: nucleic acid
357         (C) STRANDEDNESS: both
358         (D) TOPOLOGY: both
360     (ii) MOLECULE TYPE: cDNA
365     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
367 CCACCACAAG TCGACGCATG CCGACAGCCT TCCAAATGT          39
369 (2) INFORMATION FOR SEQ ID NO: 19:
371     (i) SEQUENCE CHARACTERISTICS:
372         (A) LENGTH: 46 base pairs
373         (B) TYPE: nucleic acid
374         (C) STRANDEDNESS: both
375         (D) TOPOLOGY: both
377     (ii) MOLECULE TYPE: cDNA
382     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
384 GGCCGATTAC GATATCCCAA CGACCGAAAA CCTGTATTTT CAGGGT          46
386 (2) INFORMATION FOR SEQ ID NO: 20:
388     (i) SEQUENCE CHARACTERISTICS:
389         (A) LENGTH: 30 base pairs
390         (B) TYPE: nucleic acid
391         (C) STRANDEDNESS: both
392         (D) TOPOLOGY: both
394     (ii) MOLECULE TYPE: cDNA
399     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
401 CAGGTTTTCG GTCGTTGGGA TATCGTAATC          30
403 (2) INFORMATION FOR SEQ ID NO: 21:
405     (i) SEQUENCE CHARACTERISTICS:
406         (A) LENGTH: 47 base pairs
407         (B) TYPE: nucleic acid
408         (C) STRANDEDNESS: both
409         (D) TOPOLOGY: both
411     (ii) MOLECULE TYPE: cDNA
416     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
418 GGCCAGATTA CGATATCCCA ACGACCGAAA ACCTGTATTT TCAGGGT          47
420 (2) INFORMATION FOR SEQ ID NO: 22:
422     (i) SEQUENCE CHARACTERISTICS:
423         (A) LENGTH: 31 base pairs
424         (B) TYPE: nucleic acid
425         (C) STRANDEDNESS: both
426         (D) TOPOLOGY: both
428     (ii) MOLECULE TYPE: cDNA
433     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
435 CAGGTTTTCG GTCGTTGGGA TATCGTAATC T          31
437 (2) INFORMATION FOR SEQ ID NO: 23:
439     (i) SEQUENCE CHARACTERISTICS:
440         (A) LENGTH: 48 base pairs
441         (B) TYPE: nucleic acid

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/058,292

DATE: 02/10/2002

TIME: 15:12:30

Input Set : N:\Crf3\RULE60\10058292.txt

Output Set: N:\CRF3\02102002\J058292.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:33 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]

US 1005829209P1



Creation date: 14-08-2003
Indexing Officer: HTON1 - HUAN TON
Team: OIPEBackFileIndexing
Dossier: 10058292

Legal Date: 16-12-2002

No.	Doccode	Number of pages
1	LET.	1
2	DRW	44

Total number of pages: 45

Remarks:

Order of re-scan issued on